

ABBREVIATIONS

SYMBOLS (AS APPLICABLE)

GENERAL NOTES

Table of abbreviations with columns for symbol, description, and unit. Includes terms like ARCHITECT/ENGINEER, AIR TO AIR HEAT EXCHANGER, AIR BLENDER, etc.

Table of symbols with columns for symbol, description, and unit. Includes terms like RETURN OR EXHAUST, RETURN AIR, RETURN AIR DRYER, etc.

Table of symbols for piping and valves with columns for symbol, description, and unit. Includes terms like NEW PIPING (HOT WATER SUPPLY), EXISTING PIPING (HOT WATER SUPPLY), etc.

Table of symbols for other components with columns for symbol, description, and unit. Includes terms like BACKFLOW PREVENTER, BASKET STRAINER, DUPLEX BASKET STRAINER, etc.

- 1. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS.
2. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
3. TOTAL EXTERNAL STATIC PRESSURE NOTED IN THE MECHANICAL SCHEDULE INCLUDES DUCT SYSTEM, TERMINAL UNITS, REHEAT COILS, AIR TERMINALS ETC.
4. FOR TYPICAL STEAM AND WATER PIPING CONNECTIONS TO EQUIPMENT, SEE STANDARD EQUIPMENT DETAILS.
5. DIFFUSER, REGISTER AND GRILLE SIZES SHOWN ON FLOOR PLANS ARE NECK SIZES.
6. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
7. WALL TYPE REGISTERS OR GRILLES ARE TO BE LOCATED WITH BOTTOM OF REGISTER OR GRILLE AT AN ELEVATION ABOVE FINISHED FLOOR AS INDICATED ON DRAWINGS. HOWEVEVER IT SHALL BE THE BUILDING'S RESPONSIBILITY TO COORDINATE THE FINAL ELEVATIONS OF THE REGISTERS OR GRILLES ON THE WALL TO AVOID CONFLICTS WITH OTHER BUILDING SERVICES.
8. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
9. SEISMIC PROVISIONS REQUIRED - SEE SPECS.
10. ALL PRESSURES LISTED ARE GAGE PRESSURE UNLESS OTHERWISE NOTED.
11. ALL DUCTWORK, INSULATION, EQUIPMENT AND INSTALLATION SHALL CONFORM AS A MINIMUM, ALL APPLICABLE CODES AND GOVERNING AUTHORITIES HAVING JURISDICTION.
12. ALL DUCTWORK, INSULATION AND INSTALLATION SHALL CONFORM AS MINIMUM TO VA SPECIFICATIONS, STANDARDS, GUIDELINES AND SMACNA STANDARDS.
13. PROVIDE VOLUME DAMPERS IN EACH SUPPLY AIR BRANCH DUCT TO THE OUTLETS, AS FAR AWAY FROM AIR OUTLET AS POSSIBLE, AND ALL OTHER LOCATIONS AS INDICATED. INSTALL PREFERABLY AT THE BRANCH TAKEOFF.
14. CONTRACTOR SHALL OBTAIN AND FOLLOW ALL VA REQUIREMENTS, GUIDELINES, RULES AND PROCEDURES FOR CONSTRUCTION. CONTRACTOR SHALL PROVIDE INSURANCE IN ACCORDANCE WITH THE BUILDING'S CERTIFICATE OF INSURANCE REQUIREMENTS.
15. WHERE CONNECTING FLEXIBLE DUCTWORK TO CEILING DIFFUSERS AND CEILING REGISTERS, SIZE OF BRANCH A FLEXIBLE DUCT SHALL BE SAME SIZE AS NECK OF CEILING DIFFUSER OR CEILING REGISTER, MAXIMUM LENGTH TO BE 6'-0" LONG.
16. ROOM THERMOSTATS SHALL BE CENTERED BEHIND THE LIGHT SWITCHES UNLESS OTHERWISE NOTED. CONTRACTOR TO VERIFY EXACT LOCATIONS WITH ARCHITECT. MOUNT THERMOSTATS AT 48" ABOVE THE FLOOR, THERMOSTAT PER VA STANDARD.
17. ON NEW FLOOR PLANS, LIGHT DASHED/HIDDEN LINE INDICATE EXISTING SERVICES AND HEAVY SOLID LINE INDICATE NEW MECHANICAL WORK. INTERSECTION OF EXISTING AND NEW WORK LINES INDICATE POINT OF CONNECTION. ON DEMOLITION PLANS HEAVY DASHED/HIDDEN LINE INDICATE MECHANICAL DEMOLITION WORK. INTERSECTION OF EXISTING AND DEMOLITION WORK LINES INDICATE POINT OF DEMOLITION.
18. RUN ALL DUCTS AS TIGHT AS POSSIBLE TO BOTTOM OF STRUCTURE, UNLESS OTHERWISE NOTED. DUCT DIMENSIONS SHOWN ARE NET INSIDE DIMENSIONS. ALL PIPE SIZES SHOWN ARE NOMINAL PIPE DIAMETERS.
19. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
20. CALIBRATE AND SET ALL THERMOSTATS SET POINTS TO 75°F FOR COOLING AND 70°F FOR HEATING. THERMOSTATS ARE REVERSE ACTING. COORDINATE WITH FAN COIL UNIT AND ASSOCIATED CONTROL VALVE ACTUATORS. CONTROL SHALL BE ADJUSTABLE TO PROVIDE A RANGE UP TO 5°F BETWEEN FULL HEATING AND FULL COOLING, AND THE CAPABILITY OF THERMISTING AT A TEMPERATURE OF NO MORE THAN 70°F, AND COOLING AT A TEMPERATURE NOT LESS THAN 70°F.
21. ENTIRE INSTALLATION SHALL COMPLY WITH ALL GOVERNING CODES AND REGULATIONS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND LICENSES.
22. CONTRACTOR SHALL PROVIDE WRITTEN WARRANTY TO REPLACE ALL FACTORY MATERIALS AND/OR LABOR, AT NO COST TO OWNER, FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER ACCEPTANCE.
23. CONTRACTOR SHALL PROVIDE EQUIPMENT/MATERIAL SUBMITTALS WITH DESCRIPTIVE DATA FOR ALL PRODUCTS AND MATERIALS WITH SHOP DRAWINGS AT 1/2" SCALE INCLUDED IN THE SUBMITTALS.
24. UNLESS SPECIFICALLY INDICATED/INSTRUCTED, ALL EXISTING ABANDONED EQUIPMENT WHICH IS NOT IN USE SHALL BE DISPOSED OFF BY THE CONTRACTOR AND ALL ASSOCIATED COST SHALL BE PROVIDED IN THE BID.
25. UNLESS SPECIFICALLY INDICATED/INSTRUCTED, CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, AND FEES REQUIRED FOR ENTIRE MECHANICAL INSTALLATION THAT IS IN THE SCOPE OF THIS PROJECT. CONTRACTOR SHALL FURNISH FINAL CERTIFICATE OF INSPECTION OR WRITTEN EVIDENCE OF ACCEPTANCE BY VA INSPECTION AUTHORITIES FOR ALL WORK INSTALLED.
26. IF ANY EQUIPMENT SUBMITTED BY THE CONTRACTOR IS DIFFERENT FROM THAT IS SPECIFIED OR REQUIRES CHANGES IN MATERIAL/LABOR FORM THAT IS REQUIRED PER CONTRACT DOCUMENTS AND THAT IS AFFECTING THIS AND OTHER TRADES, SUCH CHANGES SHALL BE SUBMITTED AS A SHOP DRAWING FOR OWNER'S/ENGINEER'S REVIEW. SUBMITTALS SHALL INDICATE ANY CREDIT DUE TO OWNERS BECAUSE OF SUCH CHANGES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PAYMENT OF ALL CHARGES RESULTING FROM ADDITIONS OR CHANGES IN THE WORK OF OTHER TRADES NECESSARY TO ACCOMMODATE THE REQUESTED MODIFICATION BY THIS CONTRACTOR. ALL CHANGES SHALL BE INCORPORATED IN THE DRAWINGS WHEN SUBMITTED AS AS-BUILT DRAWINGS FOR RECORDS AS PART OF PROJECT CLOSE-OUT DOCUMENTATION.
27. THESE DRAWINGS INDICATED THE FINISHED REQUIREMENTS OF THE MECHANICAL SYSTEM. THE CONTRACTOR MAY DESIRE TO INSTALL THE SPECIFIED WORK IN A MANNER DIFFERENT FROM THAT IS SHOWN ON THE CONTRACT DOCUMENTS DUE TO EXISTING STRUCTURAL CONDITIONS OR TO AVOID CONFLICTS BETWEEN THE NEW OR EXISTING BUILDING SERVICES OR FOR OTHER REASONS. CONTRACTOR MAY PRESENT ALL SUCH CHANGES AS A SUBMITTAL FOR OWNER'S/ENGINEER'S REVIEW/APPROVAL BEFORE PROCEEDING WITH SUCH CHANGES. ALL CHANGES SHALL BE INCORPORATED IN THE DRAWINGS WHEN SUBMITTED AS AS-BUILT DRAWINGS FOR RECORDS AS PART OF PROJECT CLOSE-OUT DOCUMENTATION.
28. ALL SYMBOLS SHOWN ON SYMBOL LIST ARE NOT NECESSARILY USED ON THIS PROJECT.
29. CONTRACTOR SHALL COORDINATE ALL MECHANICAL WORK WITH BUILDING STRUCTURE AND ARCHITECTURAL ELEMENTS TO AVOID ANY CONFLICTS AND SHALL OBTAIN NECESSARY APPROVALS FROM OWNER'S/STRUCTURAL ENGINEER/ARCHITECT FOR ALL PENETRATIONS THROUGH WALLS/FLOOR/ROOF THAT ARE REQUIRED FOR MECHANICAL WORK.
30. AIR MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CFMS SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFFS SHALL BE SUPPLIED BY THE CONTRACTOR AND INTERRUPTING THE POWER SOURCE OF AIR-MOVING EQUIPMENT UNDER DETECTION OF SMOKE IN THE MAIN SUPPLY AIR DUCT.
31. CONTRACTOR SHALL PROVIDE TO THE GOVERNMENT UPON REQUEST MATERIAL SAFETY DATA SHEETS (MSDS) PRIOR TO INSTALLATION OR USE OF ADHESIVES, INSULATION, SEALANTS, ETC.
32. PLANS SHALL COMPLY WITH THE 2010 INTERNATIONAL MECHANICAL CODE AND PLUMBING CODE, ASHRAE 170-2008 AND FGI-2010.
33. ALL MSDS SHALL COMPLY WITH THE OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
34. CONTRACTOR SHALL PROVIDE RECYCLING OF ITEMS FOR DEMOLITION AND/OR CONSTRUCTION SUBJECT TO ECONOMIC EVALUATION, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: DUCTWORK & HVAC EQUIPMENT, WIRING & ELECTRICAL EQUIPMENT, INSULATION, ETC.
35. ALL WASTE AND/OR DEMOLISHED MATERIALS FOUND TO CONTAIN LEAD, ASBESTOS OR POLY-CHLORINATED BIPHENYLS (PCBS) OR OTHER HARMFUL SUBSTANCES SHALL BE HANDLED AND REMOVED IN ACCORDANCE WITH FEDERAL AND STATE LAW FOR RECYCLED CONTENT RECOMMENDATION.
36. ALL INSULATION PRODUCTS FOR HVAC SHALL CONTAIN RECOVERED MATERIALS AS REQUIRED BY THE EPA'S CPG AND RELATED RECYCLED CONTENT RECOMMENDATION.
37. NO INSULATION INSTALLED FOR THE PROJECT SHALL BE OF MATERIAL MANUFACTURED USING CHLOROFLUOROCARBONS (CFC'S) NOR SHALL CFC'S BE USED IN THE INSTALLATION OF THE PRODUCT.
38. ALL INSULATING MATERIALS SHALL HAVE PROPERTIES THAT EXCEED OR MEET APPLICABLE INDUSTRY STANDARDS. POLYSTYRENE PRODUCTS SHALL MEET ASTM C578-91.
39. CONTRACTOR SHALL SURVEY THE SPACE FOR EXISTING CONDITIONS AND ALLOW FOR 20% CONTINGENCY BASED ON UNFORESEEN CONDITIONS.

SHEET INDEX

Table with columns for sheet number, description, and size. Includes M001A SYMBOLS, NOTES AND ABBREVIATIONS, M101A MECHANICAL ADMIN 1ST FLOOR PLAN, etc.

FINAL BID DOCUMENTS

CONSULTANTS:

ARCHITECT/ENGINEERS:

Professional Engineer seal for HILLIARD ARCHITECTS, INC. and project information including drawing title 'SYMBOLS, NOTES AND ABBREVIATIONS', project number '640-13-121P', and location 'VAPAHCS, PALO ALTO CAMPUS'.

Project information including drawing title 'SYMBOLS, NOTES AND ABBREVIATIONS', project number '640-13-121P', building number '6', and location 'VAPAHCS, PALO ALTO CAMPUS'.

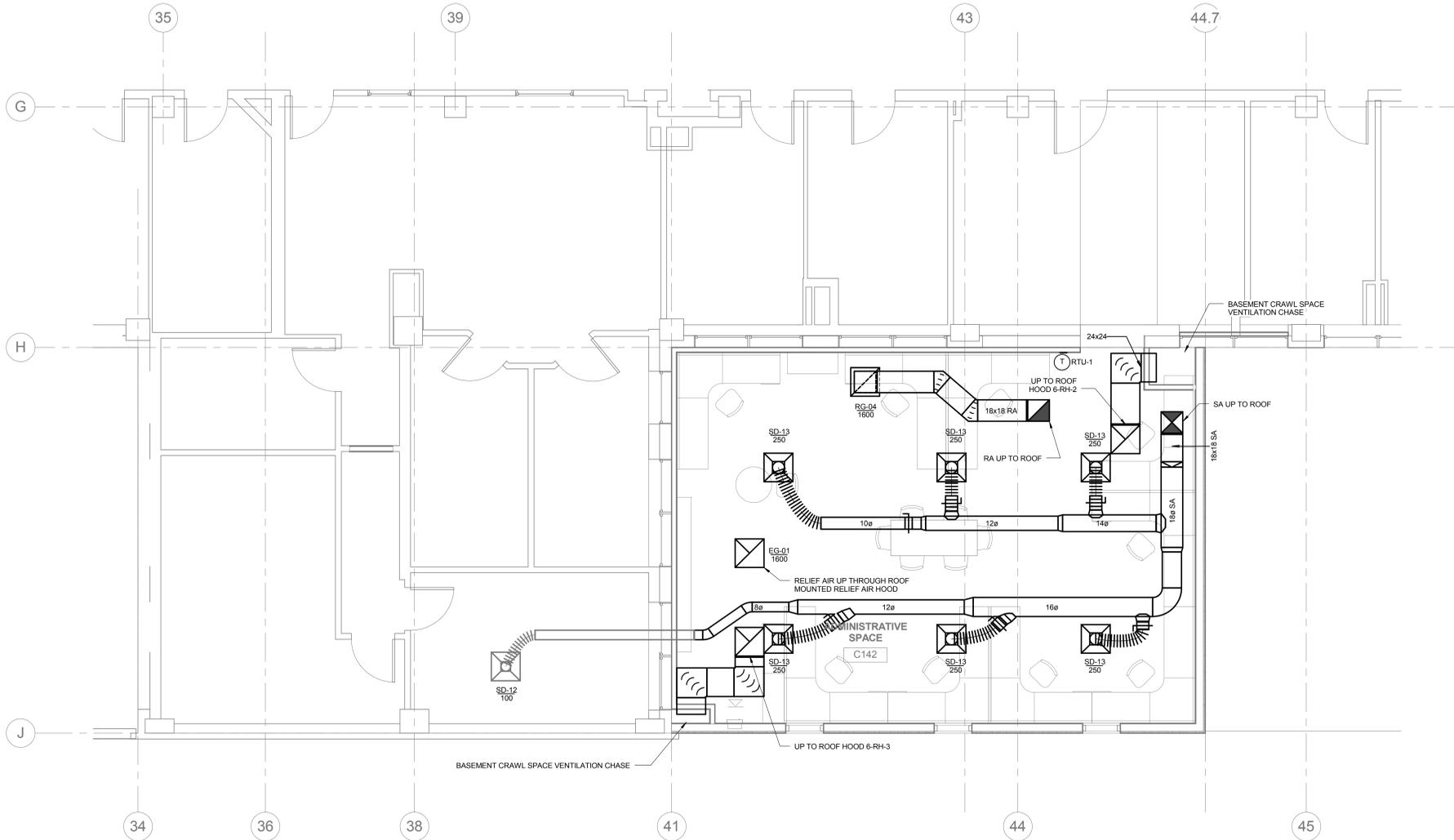
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Project information including drawing title 'SYMBOLS, NOTES AND ABBREVIATIONS', project number '640-13-121P', building number '6', and location 'VAPAHCS, PALO ALTO CAMPUS'.



three eighths inch = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot

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**1** FIRST FLOOR ADMIN HVAC PLAN  
 1/4" = 1'-0"

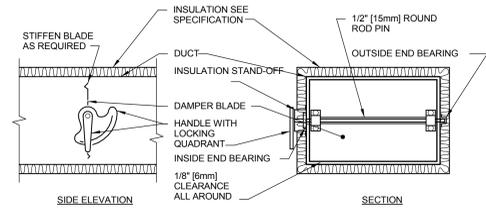
KEY NOTES:	SHEET NOTES:
	<ol style="list-style-type: none"> <li>FIELD VERIFY (E) CONDITIONS PRIOR TO COMMENCEMENT OF WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES.</li> <li>THIS CONTRACTOR SHALL COORDINATE WITH VA FACILITY ENGINEER/ VA OFFICIAL REPRESENTATIVE TO GET NECESSARY PERMIT TO ISOLATE (E) FUNCTIONAL MECHANICAL SERVICES PRIOR TO COMMENCEMENT OF ANY NEW WORK INDICATED ON THIS DRAWING.</li> <li>THIS CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL (E) BUILDING SERVICES, (E) BUILDING STRUCTURE &amp; ARCHITECTURAL ELEMENTS ETC. DURING THE ENTIRE PERIOD OF CONSTRUCTION. COORDINATE WITH GENERAL CONTRACTOR FOR ANY CEILING/WALL/ROOF PENETRATION OR CORE DRILLING WORK. NO WORK SHALL BE PERFORMED WITHOUT APPROVAL FROM VA OFFICIALS/VA FACILITY ENGINEER/GENERAL CONTRACTOR.</li> <li>COORDINATE WITH G.C. FOR CEILING ACCESS TO CARRY OUT ALL MECHANICAL/PLUMBING WORK. COORDINATE WITH G.C. TO PROVIDE ALL NEW CEILING ACCESS PANELS THAT ARE NECESSARY FOR THE MAINTENANCE &amp; SERVICE OF THE NEW MECHANICAL EQUIPMENT AS RECOMMENDED BY THE EQUIPMENT MANUFACTURERS.</li> <li>COORDINATE EXACT LOCATIONS OF THERMOSTAT WITH THE ARCHITECT BEFORE INSTALLATION.</li> <li>COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE CEILING ACCESS PANELS TO ACCESS ALL VOLUME AND MOTORIZED DAMPERS LOCATED OVER NON- ACCESSIBLE CEILING.</li> <li>PROVIDE YOUNG REGULATORS REMOTE OPERATOR DAMPERS WHERE CEILING IS NON-ACCESSIBLE.</li> <li>PROVIDE TRANSITIONAL DUCTWORK WHERE EVER REQUIRED TO CONNECT TO DUCT SIZES SHOWN IN THE PLAN.</li> <li>INSTALL BALANCING DAMPERS AS FAR AWAY FROM THE DIFFUSERS AS POSSIBLE PREFERABLY AFTER THE TAKE-OFF FROM A BRANCH DUCT. ALL DIFFUSERS AND REGISTERS SHALL HAVE BALANCING DAMPERS WHETHER SHOWN ON PLANS OR NOT.</li> <li>LOCATIONS OF NEW EQUIPMENT, DUCTWORK, PIPING ETC. ARE APPROXIMATE. CONTRACTOR SHALL INCLUDE IN HIS BID ALL REQUIRED OFFSETS, TRANSITIONS, FITTINGS ETC. THAT ARE REQUIRED TO ROUTE THE NEW DUCTWORK AND PIPING TO AVOID CONFLICTS WITH (E) BUILDING STRUCTURE AND OTHER BUILDING SERVICES.</li> <li>REFER MECHANICAL SCHEDULES DRAWINGS TO PROVIDE ALL EQUIPMENT, EQUIPMENT ACCESSORIES, AND OPTIONS SPECIFIED.</li> <li>REFER DRAWING C-701A TO PROVIDE REQUIRED CONTROLS, CONTROL DEVICES AND CONTROL WIRING ETC.</li> </ol>



**FINAL BID DOCUMENTS**

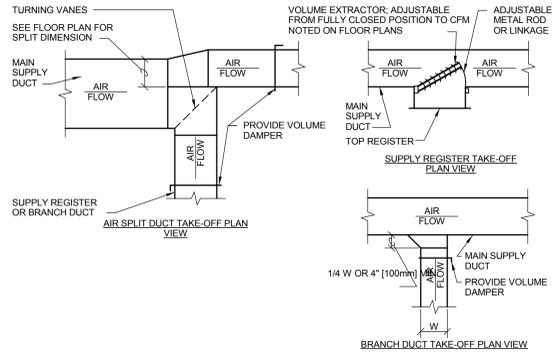
Revisions: _____ Date _____ Date	<b>CONSULTANTS:</b> _____ _____	 REGISTERED PROFESSIONAL ENGINEER PRASAD V. MORE No. M55946 Exp. Mar. 31, 2014 MECHANICAL STATE OF CALIFORNIA	<b>ARCHITECT/ENGINEERS:</b>  HILLIARD ARCHITECTS ESTABLISHED 1988 GOING GREEN HILLIARD ARCHITECTS, INC 251 Post Street, Suite 620 San Francisco, CA 94108-5017 Tel 415 989 6400, Fax 415 989 3056 www.HilliardArchitects.com	Drawing Title <b>MECHANICAL ADMIN FIRST FLOOR PLAN</b>	Project Title <b>VA PA BLDG 6 ADMINISTRATIVE EXPANSION</b>	Project Number <b>640-13-121P</b>	Office of Construction and Facilities Management Department of Veterans Affairs
				Approved: Project Director _____	Location VAPAHCS, PALO ALTO CAMPUS 3801 MIRANDA AVE. PALO ALTO, CA 94304	Building Number <b>6</b>	
				Date <b>04.17.2014</b>	Checked SHG	Drawn Author	Dwg. of





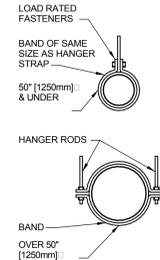
- NOTE:
- DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
  - DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

VOLUME DAMPER DETAIL (10)



- DESIGNER'S NOTES:
- THE SUPPLY REGISTER TAKE-OFF MAY BE USED FOR UP TO 25% OF THE MAIN DUCT CFM. THE BRANCH DUCT TAKE-OFF MAY BE USED FOR UP TO 15% OF THE MAIN DUCT CFM ANYTIME AND UP TO 40% WHEN THE MAIN DUCT VELOCITY IS 1000 FPM (5.1 M/S) OR LESS. THE AIR SPLIT DUCT TAKE-OFF SHALL BE USED IN ALL OTHER CASES AND MAY BE USED AT ANYTIME.
  - SHOW ALL VOLUME DAMPERS ON FLOOR PLANS.

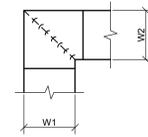
SUPPLY DUCTWORK TAKE-OFFS (7)



HANGER STRAPS OR RODS			
MAX. DUCT IN. (mm)	QUANTITY/SIZE IN. (mm)	MAX. LOAD LBS. (kg)	MAX. SPACING IN. (mm)
26 (650)	ONE 1 (25) x 22 GA STRAP	260 (119)	144 (3600)
36 (900)	ONE 1 (25) x 18 GA STRAP	420 (190)	144 (3600)
50 (1250)	ONE 1 (25) x 16 GA STRAP	700 (317)	144 (3600)
60 (1500)	TWO 3/8 (10) RODS	1320 (598)	144 (3600)
84 (2100)	TWO 1/2 (13) RODS	2500 (1133)	144 (3600)

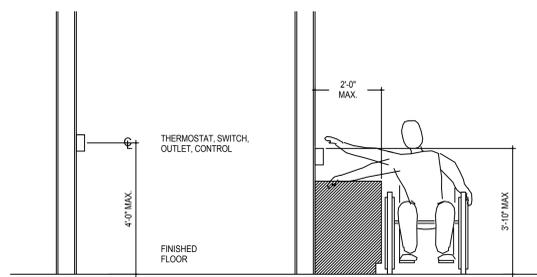
NOTE:  
FABRICATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

ROUND DUCT HANGERS (4)

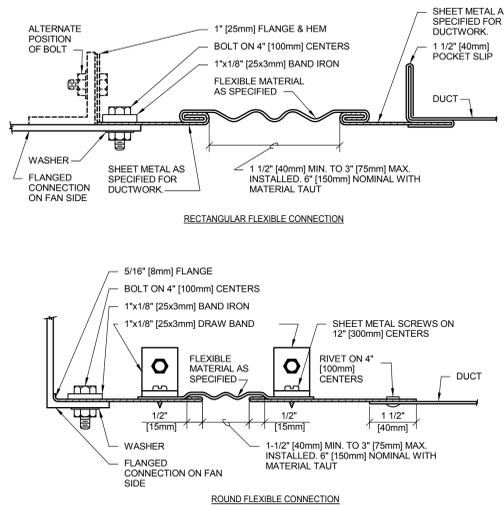


- NOTE:
- ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA. WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
  - ALL SINGLE THICKNESS VANES SHALL HAVE A 2" (50mm) RADIUS, 1 1/2" (40mm) MAXIMUM SPACE BETWEEN VANES AND A 3/4" (20mm) TRAILING EDGE.
  - WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" (500mm) VANES SHALL BE DOUBLE VANE TYPE.

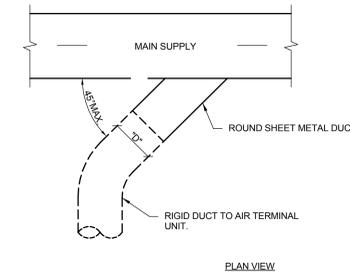
DUCTWORK SQUARE VANE ELBOWS (1)



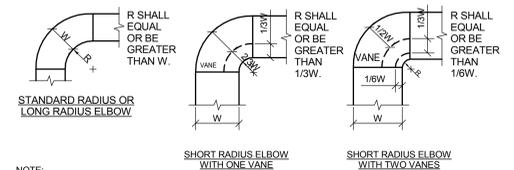
TYPICAL THERMOSTAT DETAIL (11)



FLEXIBLE DUCT CONNECTIONS (8)

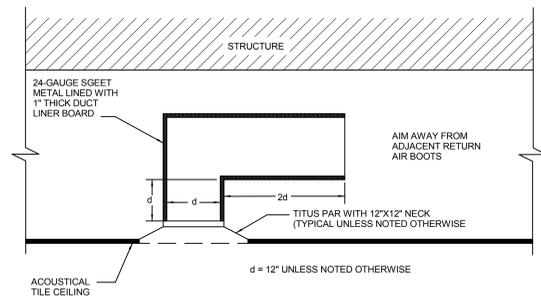


SUPPLY DUCT TAKEOFF - AIR TERMINAL UNIT (5)



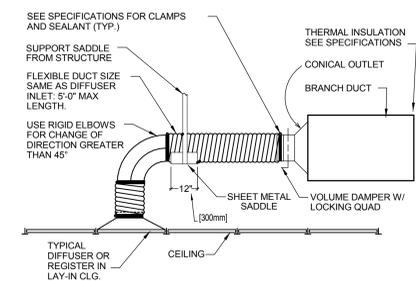
- NOTE:
- THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
  - ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

DUCTWORK RADIUS ELBOWS (2)



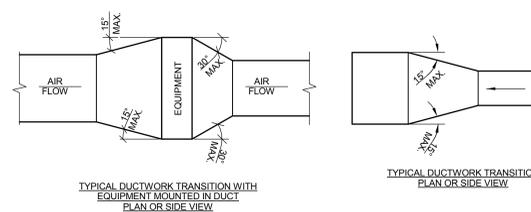
NOTE: LOCATE RETURN AIR DUCT AS FAR FROM OTHER RETURN AIR DUCTS AS POSSIBLE

RETURN AIR DUCT BOOT (12)



NOTE: THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE.

FLEXIBLE AIR DUCT CONNECTOR (9)



NOTE: UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT) (6)

ALTERNATE SUPPLY DUCT TAKEOFF - AIR TERMINAL UNITS (3)

FINAL BID DOCUMENTS

HILLIARD ARCHITECTS INC. COPYRIGHT

Revisions:	Date

CONSULTANTS:

ARCHITECT/ENGINEERS:

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ESTABLISHED 1988  
GOING GREEN

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MECHANICAL DETAILS	
Approved: Project Director	

Project Title <b>VA PA BLDG 6 ADMINISTRATIVE EXPANSION</b>	Project Number <b>640-13-121P</b>
Location <b>VAPAHCS, PALO ALTO CAMPUS 3801 MIRANDA AVE. PALO ALTO, CA 94304</b>	Building Number <b>6</b>
Date <b>04.17.2014</b>	Checked <b>SHG</b>
Drawn <b>Author</b>	Drawing Number <b>M501A</b>
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Office of Construction and Facilities Management

Department of Veterans Affairs



